SR10120CT

SCHOTTKY BARRIER RECTIFIER

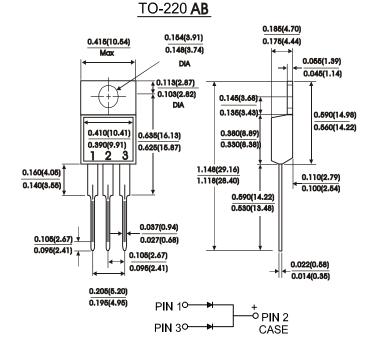
FEATURES:

- Plastic package Underwriters Laboratory
 Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction
 Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic
Terminals: Leads solderable per MiL-STD-750

Method 2026
Polarity: As marked
Mounting Position: Any
Mounting Torque 5 in - lbs.max
Welght: 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	\$R10120CT	Units
Maximum recurrent peak reverse voltage	V _{RRM}	120	Volts
Maximum RMS voltage	V _{RMS}	85	Volts
Maximum DC blocking voltage	V _{DC}	120	Volts
Maximum average forward rectified current at $Tc = 90^{\circ}C$ (Per Pak)	I _(AV)	10	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	80	Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF=5A	V _F	0.90	Volts
$\begin{array}{ll} \mbox{Maximum instantaneous reverse} \\ \mbox{current at rated DC blocking} \\ \mbox{voltage(Per leg)(NOTE 2)} \end{array} \qquad \begin{array}{ll} \mbox{Tc} = 25^{\circ}\mbox{C} \\ \mbox{Tc} = 125^{\circ}\mbox{C} \end{array}$	ΙR	0.5 35.0	mA
Typical thermal resistance(Per leg)(NOTE 1)	R _{th} -JC	5.0	°C/W
Operating temperature range	TJ	-65to+150	°C
Storage temperature range	T _{Stg}	-65to+150	$^{\circ}$ C

NOTES

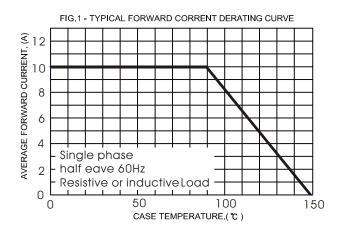
(1)Thermal resistance from junction to case (2)Pulse test: 300 us pulse width, 1% duty cycle

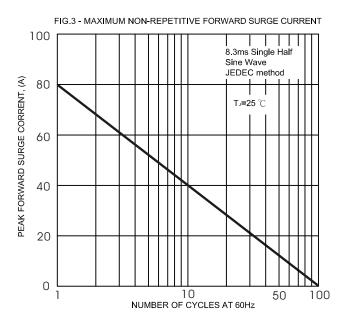
(3)Marking : $\underline{SR10120CT} = \underline{SR10120}$ (Without Marking "CT")

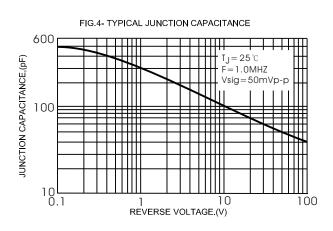
Symbol Marking

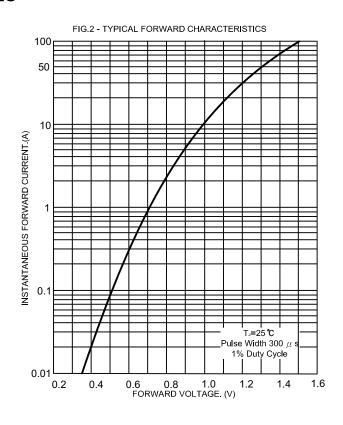
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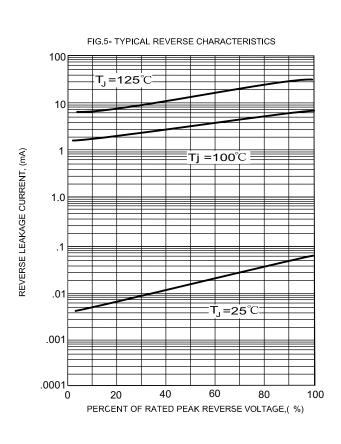
RATINGS AND CHARACTERISTIC CURVES











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